

Antenna YCG0006AA Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
-	2021-05-18	Kenny YIN/ Aria CHU	Creation of the document
1.0	2021-05-18	Kenny YIN/ Aria CHU	First official release
1.1	2021-12-05	Kenny YIN/ Aria CHU	Updated the product description in Chapter 1.

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1 Product Description

This Quectel GNSS antenna adopts a diversity of forms to guarantee the most suitable polarization type. Quectel's positioning products support single-band or multi-band operation modes to meet various high-precision positioning requirements of customers' products. Quectel also provides both passive and active antennas to satisfy the customer demand for high gain. Such antenna supports different installation or connection methods such as pin mount, surface mount, magnetic mount, internal cable, and external SMA. Customized connector type and cable length are provided according to requirements.

We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

2 Product Features

- GPS L1 & BD B1
- High efficiency
- Excellent performance



3 Product Specifications

Passive Electrical Specifications		
Frequency	1559–1577 MHz	
Input Impendence	50 Ω	
VSWR	≤ 2	
Gain	≤ 2.0 dBi	
Polarization Type	RHCP	
Mechanical Specifications		
Antenna Size	18 mm × 18 mm × 6.3 mm	
Casing	Ceramics	
Connector Type	IPEX MHF 1	
Working Temperature	-40 °C to +85 °C	
Radome Color	-	

4 Overall Performance

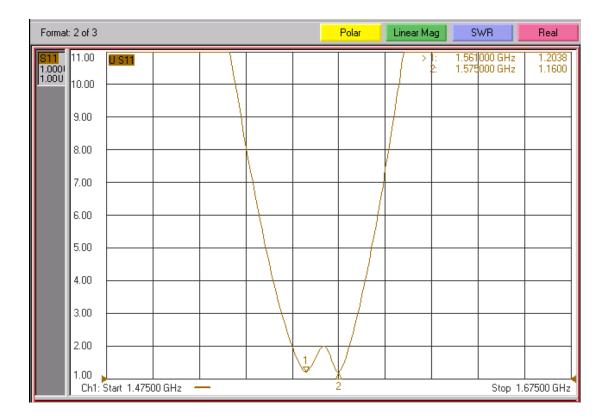
4.1. Test Environment

- KEYSIGHT VNA Network Analyzer E5063A 100 kHz 8.5 GHz
- RayZone[®]2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz 8.0 GHz





4.2. VSWR



Frequency (MHz)	1561	1575
VSWR	1.2	1.16

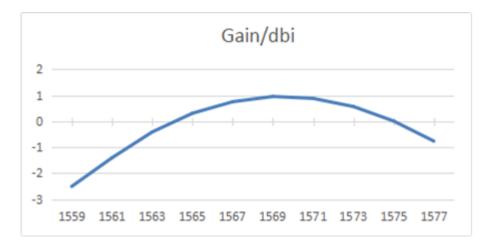


4.3. Efficiency



Frequency (MHz)	1561	1575
Efficiency (%)	42	46

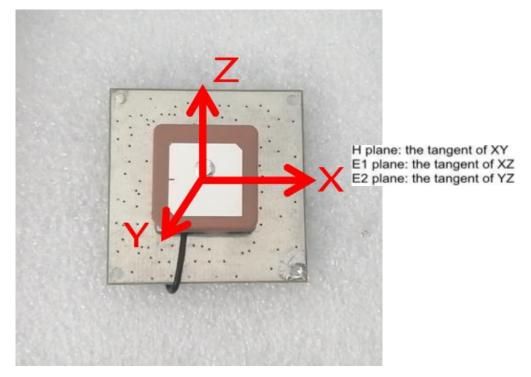
4.4. Gain



Frequency (MHz)	1561	1575
Gain (dBi)	-1.4	0.1

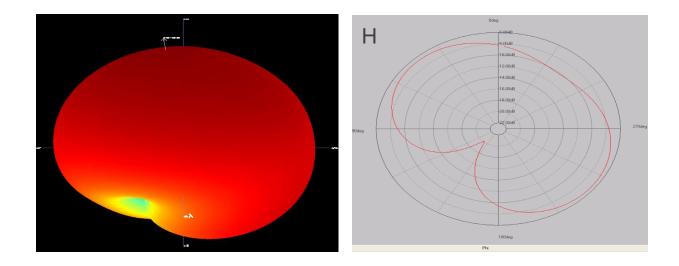
4.5. Radiation Patterns

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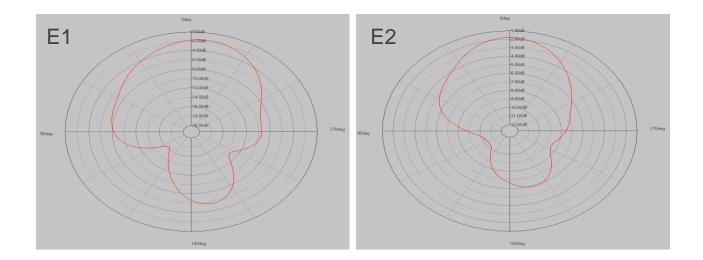


• Note: By 40 mm square ground plane.

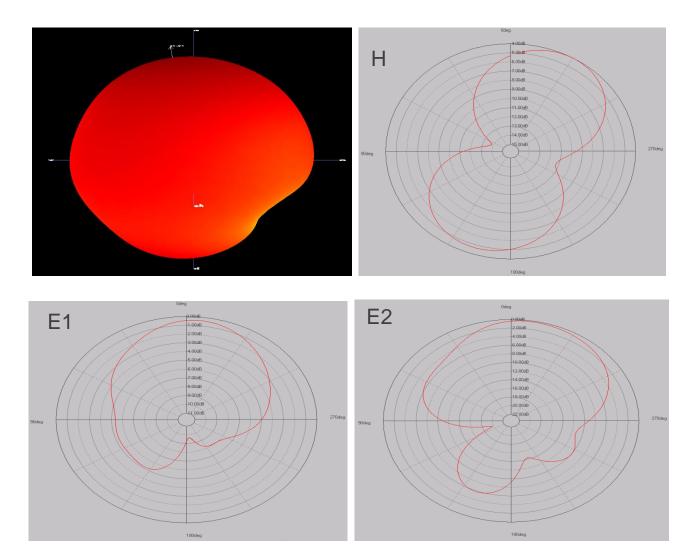
4.5.1. 1561 MHz







4.5.2. 1575 MHz



5 Product Size

